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PRODUCTION OF PRODUCT FORMED BY USING VACUUM CHAMBER

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ABSTRACT

PURPOSE: To greatly improve the productivity of products to be treated by transferring and receiving these products between plural vacuum chambers without taking the products out into the atmosphere at the time of successively treating the products in the vacuum chambers.

CONSTITUTION: The respective chambers 3 to 10 of a vacuum treatment system consisting of the plural vacuum chambers 3 to 10 are provided with door valve built-in flanges 11 or transparent flanges 12 at the time of successively treating magnetic disks 122. These magnetic disks 122 are mounted at screen-like pallets 2. Gaseous nitrogen is led to the atm. pressure in the first vacuum chamber chamber 3 of a high vacuum evacuation state. The door valve on the inlet side is opened by the instruction of a host computer 14 to carry the pallets 2 into the chamber 3. The door valve is then closed. The inside of the chamber 3 is evacuated to a high vacuum and the disks are subjected to the prescribed treatment, following which the door valve on the outlet side is opened by the instruction of the computer 14 and the pallet 2 are ejected into the next second vacuum chamber 4 by the similar operation. The products are successively carried into the vacuum chambers 3 to 10 and are treated without exposing the products to the atm. in such a manner, by which the productivity is greatly enhanced.